Mark* VIe Upgrade

Product Description
- Mark VI controllers are currently nearing the end of their life cycle and will soon become legacy units. Certain parts of both the Mark VI and GE Fanuc 90-70 controllers are already discontinued/obsolete.
- New Mark VIe combines Mark VI and GE Fanuc 90-70 into one controller, increasing service life beyond 2026.
- Significant I/O interface changes:
  - I/O interface no longer hardwired to controller, instead connected via Ethernet.
  - New 13 panel controller will incorporate the I/O interfaces from the old Mark controller.
- The Mark VIe upgrade also includes:
  - New smaller, more compact, and more efficient UCSB CPU.
  - Windows 7 software upgrade (from Windows 98, 2000, NT, and XP).
  - Innov-a replaced with touchscreen COMARK* or tower desktop HMI.
  - Latest core software logic upgrade.
  - New CIMPILICITY* GUI.
  - Integrate single software application including: ControlST*, Work stationST*, and Workstation Alarm Viewer.

Customer Value
- I/O Ethernet capability has significant benefits:
  - Increased range of installation.
  - Increase network speeds and reliability.
  - No longer limited by controller location, simply by site wide intranet system scope.
  - Alarm Viewer and other trending applications have improved interfaces, much more user friendly.
  - Decentralized I/O modules utilize local processors, creating a net increase in process computing power and delivering higher performance.
  - Lower repair time because I/O modules can be replaced individually without disturbing entire system.
  - The multi system integration allows one easy to use, centralized system to control and monitor many turbine aspects. Also easier trouble shooting.
- The new software upgrades optimize NOx and SPRINT Systems (see SPRINT page for full benefits):
  - Increased turbine power output.
  - Better engine efficiency and lower heat rate.
  - Security updates to meet NERC/FERC regulations.

Applicable Units:

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<tr>
<th>LM6000</th>
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<tr>
<td>LMS100</td>
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GE’s global service network provides life cycle support for more than 3,500 aeroderivative gas turbines worldwide to help you meet your business challenges and success metrics – anywhere and anytime. Our global service network connects with you locally for rapid response to your service needs.

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